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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/769,328	01/26/2001	Takahiro Yajima	35.C15069	5126
	590 11/29/2002	SCINITO	EVAM	NIED
30 ROCKEFE NEW YORK,		SCINTO	CROWELL, ANNA M	
<u>.</u> ,			ART UNIT	PAPER NUMBER
			1763	7
		DATE MAILED: 11/29/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
٠		09/769,328	YAJIMA ET AL.				
Office Action Summary		Examiner	Art Unit				
		Michelle Crowell	1763				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on 26 J	lanuary 2001 .					
2a)□	· · · · · · · · · · · · · · · · · · ·	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims						
4)⊠	Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>7 and 8</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6 and 9</u> is/are rejected.							
	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
	•						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☑ All b) ☐ Some * c) ☐ None of:							
, -	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) 🔀 Notic 2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u> .	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Claims 7 and 8 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 6.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-6, and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-6 are indefinite because they define the apparatus in terms of function rather than structure. Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. In re Danly, 263 F.2d 844, 847, 120 USPQ 528, 531 (CCPA 1959). "Apparatus claims cover what a device is, not what a device does." Hewlett-Packard Co. v. Bausch & Lomb Inc., 909 F.2d 1464, 1469, 15 USPQ2d 1525, 1528 (Fed. Cir. 1990).

Claims 1 and 3 recite the limitation, "the substrate being servable as an electrode". It is unclear whether the substrate is an electrode? What does this limitation mean? Is the substrate an electrode?

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Claim 9 recites the limitation, "the substrate can serve as an electrode". It is unclear whether the substrate is an electrode? What does this limitation mean? Is the substrate an electrode?

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Niso et al. (Japanese Patent Publication 02-217399).

Referring to Drawings 1-3 and the abstract, Niso discloses a thin film-producing device comprising anode 1 (power-applying electrode), cathode 2, a flexible substrate 3, a vacuum chamber, a gas inlet, a discharge space, and a gas exhaust. The anode 1 includes a plurality of needlelike electrode 1' (plurality of columnar members). Both the needlelike electrodes 1' and the substrate 3 have a curved shape (undulation). The needlelike electrodes 1' are adjusted accordingly to match the curvature of the substrate 3. By adjusting the curvature of the needlelike electrodes 1', it is possible to form a thin film having excellent uniformity of the film thickness.

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Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Niso et al. (Japanese Patent Publication 02-217399) in view of Tsubone et al (Japanese Patent Publication 63069234) and Itoh (U.S. 5,879,741).

Niso fails to teach a means for pressing the power-applying electrode and a transportation mechanism..

Referring to Drawing 1 and the abstract, Tsubone teaches that it is known to use an air cylinders (means for pressing) 33 and 38 are used to raise and lower electrode 11. When the air cylinders 33 and 38 expand, the electrode 11 is lifted. When the air cylinders 33 and 38 contract, the electrode 11 is lowered. The air cylinders are used because minimum parts are required, thereby reducing cost. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the electrode of Niso with the air cylinders as taught by Tsubone. This would allow the needlelike electrode to be raised and lowered onto the substrate, hence shaping the electrode to provide a uniform film on the substrate.

Referring to Figure 4, column 3, lines 60-65, and column 4, lines 19-25, Itoh teaches a direction 12 (transportation mechanism) which is the transportation path of the filmy flexible substrate 3. Direction 12 is used to continuously feed a substrate 3 to various processing

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stations. Thus, it would have been obvious to one of ordinary skill in the art at the time of the

invention to provide the chamber of Niso with the transportation mechanism as taught by Itoh.

This would allow a substrate to be continuously fed to various processing chambers.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 8.

disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michelle Crowell whose telephone number is (703) 305-1956.

The examiner can normally be reached on M-F (8:00 - 4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory Mills can be reached on (703) 308-1633. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9310 for regular

communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

AMC OTV

November 25, 2002

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